



Shell

97002 (1-81)

MATERIAL SAFETY DATA SHEET

MSDS NUMBER ▶ 5,120-5

PAGE 1 OF 1

SECTION I		NAME		24 HOUR EMERGENCY ASSISTANCE	
PRODUCT ▶ Isopropyl Alcohol		SHELL 713-473-9461		<div style="display: flex; justify-content: space-between;"> <div> <div>HAZARD RATING</div> <div> <div>LEAST 0</div> <div>MODERATE 2</div> </div> <div> <div>SLIGHT 1</div> <div>HIGH 3</div> </div> <div> <div>EXTREME 4</div> </div> </div> <div> <div>HEALTH</div> <div>FIRE</div> <div>REACTIVITY</div> </div> </div>	
CHEMICAL/ SYNONYMS ▶ IPA, Isopropanol, Propanol-2		CHEMTREC 800-424-9300			
CHEMICAL FAMILY ▶ Alcohol					
SHELL CODE ▶ 31105		C.A.S. NUMBER ▶ 67-63-0			

SECTION II		INGREDIENTS	
COMPOSITION	%	TOXICITY DATA	
Isopropyl Alcohol	100	Oral LD ₅₀ (rat) = 5.8g/kg Dermal LD ₅₀ (rabbit) = 16.4ml/kg Inhalation LC ₅₀ (rat) = 12,000ppm (8 hrs.)	



SECTION III	HEALTH INFORMATION
Symptoms of overexposure include such affects as headache, dizziness, nausea, incoordination, drowsiness and loss of consciousness.	
<u>Eye Contact:</u> Liquid or vapor contact can cause irritation.	
<u>Skin Contact:</u> Prolonged and repeated contact can cause dryness and irritation.	
<u>Inhalation:</u> High concentrations of vapor can irritate respiratory tract and may cause bronchopneumonia or pulmonary edema.	
<u>Ingestion:</u> May cause marked and persistent nausea, vomiting and abdominal pain. If vomiting occurs following ingestion, aspiration (breathing) of vomitus into the lungs can cause bronchopneumonia or pulmonary edema.	

SECTION IV	OCCUPATIONAL EXPOSURE LIMITS
OSHA-PEL/TWA = 400ppm ACGIH-TLV/TWA = 400ppm -TLV/STEL = 500ppm	



MATERIAL SAFETY DATA SHEET

MSDS NUMBER ▶

5,120-5
PAGE 2 OF 4

97003 (11-81)

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with water for 15 minutes while holding eyelids open. Get medical attention.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and shoes; do not reuse until cleaned. If persistent irritation occurs, get medical attention.

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

INGESTION: Do not give liquids if victim is unconscious or very drowsy. Otherwise, give no more than 2 glasses of water and induce vomiting by giving 30cc (2 tablespoons) Syrup of Ipecac. If Ipecac is unavailable, give 2 glasses of water and induce vomiting by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Get medical attention.

SECTION VI

PHYSICAL DATA

BOILING POINT (°F) ▶ 180	MELTING POINT (°F) ▶ -127	VAPOR PRESSURE (mmHg) 33@68°F
SPECIFIC GRAVITY (H ₂ O=1) ▶ 0.79	% VOLATILE BY VOLUME ▶ 100	VAPOR DENSITY (AIR=1) ▶ 2.1
SOLUBILITY IN WATER ▶ Complete	EVAPORATION RATE (BUTYL ACETATE=1) ▶ 1.4	

APPEARANCE AND ODOR

Colorless, mobile liquid. Mild odor.

SECTION VII

FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD USED	FLAMMABLE LIMITS: % VOLUME IN AIR	LOWER	UPPER
53°F (TCC)		2	12

EXTINGUISHING MEDIA

Use water fog, "alcohol" foam, dry chemical or CO₂.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

Evacuate hazard area of unprotected personnel. Wear proper protective clothing including a NIOSH approved self-contained breathing apparatus. Cool fire-exposed containers with water.

In the case of large fires, also cool surrounding equipment and structures with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

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MATERIAL SAFETY DATA SHEET

97004 110-791

MSDS NUMBER ▶

5,120-5
PAGE 3 OF 4

SECTION VIII

REACTIVITY

STABILITY ▶ ☐ UNSTABLE ☒ STABLEHAZARDOUS POLYMERIZATION ▶ ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID

Avoid heat, sparks, open flames and contact with strong oxidizing agents.

Will attack aluminum if the surface oxide film is penetrated (e.g. by abrasion or high temperature).

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide and unidentified organic compounds may be formed during combustion.

SECTION IX

EMPLOYEE PROTECTION

RESPIRATORY PROTECTION

If exposure may or does exceed occupational exposure limits (Sec.IV) use a NIOSH-approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either a full-face, atmosphere-supplying respirator or air-purifying respirator for organic vapors.

PROTECTIVE CLOTHING

Wear impervious gloves and other protective clothing as required to prevent skin contact. Wear chemical goggles to prevent eye contact.

ADDITIONAL PROTECTIVE MEASURES

Use explosion-proof ventilation as required to control vapor concentrations.

SECTION X

ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES

WARNING. Flammable. Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking.

Large spills: Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak only if safe to do so. Dike and contain. If vapor cloud forms, water fog may be used to suppress; contain run-off. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above.

Small spills: take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.

WASTE DISPOSAL

Place in a disposal facility approved under RCRA regulations for hazardous waste (See Sec. XIII). Use non-leaking containers, seal tightly and label properly.

ENVIRONMENTAL HAZARDS

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MATERIAL SAFETY DATA SHEET

MSDS NUMBER

5,120-3
PAGE 4 OF 4

97005 IREV. 7-821

SECTION XI

SPECIAL PRECAUTIONS

WARNING. Flammable Liquid.

Keep away from heat, sparks and open flames. Keep containers tightly closed. Store away from strong oxidizing agents in a cool, dry place with adequate explosion-proof ventilation. Ground equipment to prevent accumulation of static charge. If pouring or transferring materials, containers must be bonded and grounded.

Do NOT weld, heat or drill on or near container; even emptied containers can contain explosive vapors.

Aluminum containers are not recommended for storage.

Minimize skin contact. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse.

SECTION XII

TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION	<input checked="" type="checkbox"/> FLAMMABLE LIQUID	<input type="checkbox"/> COMBUSTIBLE LIQUID	<input type="checkbox"/> OXIDIZING MATERIAL	<input type="checkbox"/> NON-FLAMMABLE GAS
	<input type="checkbox"/> FLAMMABLE SOLID	<input type="checkbox"/> POISON CLASS A	<input type="checkbox"/> CORROSIVE MATERIAL	<input type="checkbox"/> NOT HAZARDOUS BY D.O.T. REGULATIONS
	<input type="checkbox"/> FLAMMABLE GAS	<input type="checkbox"/> POISON CLASS B	<input type="checkbox"/> IRRITATING MATERIAL	<input type="checkbox"/> OTHER—Specify below

D.O.T. PROPER SHIPPING NAME

Isopropanol

OTHER REQUIREMENTS

FT

D.O.T. Identification Number = UN1219. Guide Sheet 26.

SECTION XIII

OTHER REGULATORY CONTROLS

EPA, FDA, OSHA, USDA, CPSC, etc.

EPA - Resource Conservation and Recovery Act (RCRA) Regulations
As produced, this material is a product and not a waste. If discarded or intended to be discarded as is, it is an ignitable hazardous waste as defined in RCRA (40 CFR 261.21). The EPA hazardous waste number is D001.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

BE SAFE

READ OUR PRODUCT
SAFETY INFORMATION
...AND
PASS IT ON

PRODUCT LIABILITY LAW
REQUIRES IT.

John P. Lepesi
Manager

SHELL OIL COMPANY
PRODUCT SAFETY AND COMPLIANCE
OIL AND CHEMICAL PRODUCTS
P.O. BOX 4320
HOUSTON, TEXAS 77210

DATE PREPARED

June 17, 1982